A. Report of the Committee on Gene Symbolization, Nomenclature and Linkage Groups

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I. Registration of new gene symbols

The following genes are newly registered:

GENE SYMBOL REGISTRATION No. 160

Registrant: T. Kawakatsu[1], J.-I. Itoh[1], K. Miyoshi[1], N. Kurata[2], and Y. Nagato[1,]
1) Graduate School of Agricultural and Life Sciences, University of Tokyo, Tokyo 113-8657, Japan
2) National Institute of Genetics, Mishima 411-8540, Japan

Gene symbol: *pla2*

Gene name: *plastochron 2*

Character expression: Recessive alleles, *pla2-1* and *pla2-2*, exhibit short plastochron and conversion of primary rachis branch primordia to vegetative shoot.

Name of original line: Taichung 65

Gene locus: Long arm of chromosome 1

Remark: Two recessive alleles, *pla2-1* and *pla2-2*, were identified from M2 population mutagenized with N-methyl-N-nitrosourea.
PLA2 encodes *MEI2*-like RNA-binding protein

Reference: Kawakatsu et al. (2001) RGN 18:21-23.
Kawakatsu et al. (2006) Plant Cell (in press)

GENE REGISTRATION No. 161

Registrant: T. Kinae and Y. Nagato
Graduate School of Agricultural and Life Sciences, University of Tokyo, Tokyo 113-8657, Japan

Gene symbol: *apd1*

Gene name: *apical dicplacement 1*

Character expression: In a recessive allele, position of shoot meristem is displaced toward the embryo apex due to underdevelopment of scutellum. Multiple radicles are formed.

Name of original line: Taichung 65

Gene locus: Unknown

Remark: Only one mutant allele, *apd1-1*, has been identified.

Reference: Kinae, T., et al. (2005) Plant Sci. 168: 1345-1351
Kinae, T., et al. (1999) RGN 16 : 27-30.

GENE REGISTRATION No. 162

Registrant: Y. Inukai[1)], Y. Shibata[1)], M. Ashikari[2)], M.Matsuoka[2)] and H. Kitano[2)]
1) Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, 464-8601, Japan
2) Bioscience and Biotechnology Center, Nagoya University, Nagoya, 464-8601, Japan

Gene symbol: *crl1*

Gene name: *crown rootless 1*

Character expression: The recessive mutant, *crl1*, is defective in crown root formation

Name of original line: MNU induced mutant from Taichung 65

Gene locus: Located between C725 and R3131 on the short arm of chromosome 3

Remark: *CRL1* encodes a member of the plant-specific ASYMMETRIC LEAVES2/LATERAL ORGAN BOUNDARIES protein family.

Reference: Inukai Y. *et al*. (2001) Breed. Sci. 51: 123-129.
Inukai Y. *et al*. (2005) The Plant Cell 17: 1387-1396.

GENE REGISTRATION No. 163

Registrant: T. Sazuka, I. Aichi, T. Kawai, N. Matsuo, H. Kitano, M. Matsuoka
Bioscience and Biotechnology Center, Nagoya University, Nagoya, 464-8601, Japan

Gene symbol: *dbs1*

Gene name: *dwarf bamboo shoot 1*

Character expression: The recessive mutant, *dbs1*, shows severe dwarfism and bamboo-like shoot

Name of original line: MNU induced mutant from Taichung 65

Gene locus: Located near 73.4cM on chromosome 1

Remark: *DBS1* encodes a NACK-type kinesin-like protein

Reference: Sazuka T. *et al*. (2005) Plant Cell Physiol. 46: 1934-1943.

GENE REGISTRATION No. 164

Registrant: Masanori Yamasaki, Atsushi Yoshimura & Hideshi Yasui
Faculty of Agriculture, Kyushu University, Fukuoka 812-8581, Japan

Gene symbol: *Ovc*

Gene name: *Ovicidal*

Character expression: Dominant allele from Asominori causes ovicidal effect against planthopper eggs

Name of original line: *O. sativa* cv. Asominori

Gene locus: Chromosome 6

Remark: The Asominori allele at *Ovc* was essential for increasing egg mortality and responsible for

production of benzyl benzoate and formation of watery lesions.

Reference: Yamasaki, M., A. Yoshimura and H. Yasui (2003) Mol. Breed. 12: 133-143

Yamasaki M., H. Yasui and A. Yoshimura (1999) RGN16: 94-96.

GENE REGISTRATION No. 165

Registrant: Kazuyuki Doi and Atsushi Yoshimura

Faculty of Agriculture, Kyushu University, Fukuoka 812-8581, Japan

Gene symbol: *Ehd1*

Gene name: *Early heading date 1*

Character expression: Dominant allele from *O. glaberrima* (IRGC104038) causes early heading.

Name of original line: *O. glaberrima* (IRGC104038)

Gene locus: Chromosome 10 (DDBJ AB092509)

Remark: Dominant alleles, of *Ehd1*, confer short-day promotion of heading. Taichung 65, a Japonica variety, possesses a recessive allele. *Ehd1* encodes a B-type response regulator..

Reference: Doi, K., T. Izawa, T. Fuse, U. Yamanouchi, T. Kubo, Z. Shimatani, M. Yano and A. Yoshimura (2004) Genes Dev. 18: 926-936.